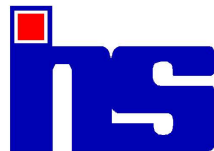


Director's Report 2017 -18

**Presented to Annual General Body Meeting
20th Dec 2018**



THE INSTITUTE OF HEALTH SYSTEMS



The Institute of Health Systems , HACA Bhavan, Hyderabad, TS 500004, India.

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The Institute of Health Systems, Director's Report, 2017-18.

Ladies and Gentlemen,

On behalf of the faculty and staff of the Institute, I welcome you all to this 23rd Annual General Body meeting. During the reporting period, we continued to strengthen and improve quality of the laboratory services. During the last quarter of the reporting period, we filed an application for NABL accreditation for chemical laboratory. After pre & final assessment by the NABL Inspectors, we got accreditation in Aug 2018. A research project on "Study of Consumer Complaints and Water Safety in Hyderabad" was awarded by the Metro Water Board (MWB) to IHS, based on e-tender, completed and submitted the report in Jul 2018. The project is continued in the current year for another six months and the study is in progress. A modest improvement of the Institute's financial position enabled us to clear most of the liabilities. However, we are yet to pay development charges for IHS land, and to replenish the corpus fund. The existing staff have worked hard and persevered to keep the Institute going. I gratefully acknowledge the support given by members of the Board, the Executive Council, and the General Body in sustenance of the Institute. I would like to use this opportunity to specially acknowledge the guidance of the IHS Chairman, Dr. G.N.Rao and continued contribution of Dr.Prasanta Mahapatra, President & Dean of the Institute as a volunteer and mentor in all aspects. I first present about the Institute's human resources.

Institute's Human Resources, Fellows & Interns:

We are functioning with a small team mostly of water quality testing & laboratory staff (Table-1). As there are no other research projects except "Study of Consumer Complaints and Water Safety in Hyderabad", we could not recruit faculty and research personnel in the reporting period. However, during the current year, we recruited staff to strengthen the laboratory. The expansion in laboratory activities has allowed us to take in more interns and give them practical training in various aspects of laboratory services, field work and information technology support.

Table-1: IHS Human Resources and Stipendiary Interns.

Category of Personnel	As on 31/3/18					As on 01/12/18				
	Emp	Stipnd	Fee	Vol.	Tot	Emp	Stipnd	Fee	Vol.	Tot
Faculty & Consultants	2	0	1	1	4	2	0	0	1	3
Res. Associates / Fellows	2	1	0	0	3	2	0	0	0	2
Res/Field. Investigators	0	0	0	0	0	0	0	0	0	0
Lab Techs / Interns	2	3	0	0	5	1	5	0	0	6
Water Safety Surveyors	0	0	0	0	0	1	1	0	0	0
WQT Investigators	3	10	0	0	13	9	5	0	0	14
Prog. Officer/Back Office	0	1	0	0	1	0	0	0	0	0
Accountant	0	0	0	0	0	0	0	0	0	0
Systems Admin/Pgmr	0	1	0	0	1	0	1	0	0	1
Data Processing	0	0	0	0	0	1	1	0	0	2
Front Office Staff	2	0	0	0	2	1	0	0	0	1
Driver	1	0	0	0	1	0	0	0	0	0
All	12	16	1	1	30	17	13	0	1	29

¹ The number of service provider personnel may vary as their deployment changes according to the quantity and quality of service commitments to the Institute. The figures indicated here are based on the personnel on most days.

² Emp=Employee, i.e. Salaried; Stipnd=Stipendiary Interns; Vol=Voluntary; Tot=total,

Annexures-1A provides more detail about the current faculty and personnel profiles, of the Institute. A list of outgoing faculty and personnel is given in Annexures-1B. Our faculty and staff participated in a few workshops, seminars and conferences, details of which are provided in Annexure-2. As you are aware, our academic and training programs are now limited to fellows and internships. During the reporting period we hosted one research fellow who got Fulbright-Nehru scholarship sponsored by the US-India Educational Foundation (USIEF). In addition, we have given practical training to interns in various areas. Details of the fellow and interns are given in Annexures- 3A & 3B.

Now, I will give an overview of activities during the reporting period and also briefly touch upon recent developments during the current year. We will then review the time trend of the Institute's financial performance and consider possible directions for the future. Finally I will seek your comments and approval of the audited accounts of the Institute.

Reporting Period (2017-18) Events and Activities:

As you all are aware, the Institute pursues five broad type of activities towards improvement of public health. These are; (a) Research & Consultancy, (b) Academic Programmes, (c) Training Services, (d) Public Services, and (e) Publications.

A. Research and Consultancy:

The following two projects, shown in Table-2, were implemented during the reporting period. Both the projects are funded by the Hyderabad Metrowater Supply and Sewerage Board. The Water Quality Monitoring project has been continued for the next year. The "Metro Water Board Consumer Complaints Surveillance For Water Safety" study has been completed and report submitted. After appraisal on the report, the MWB has decided to continue the project for second year. Financial sanction has been extended for six months, to allow time for e-tendering. However, the e-tendering has been held up due to the Legislative Assembly elections. As the elections have just been completed, we expect the process to resume.

Table-2: Research & Consultancy Projects in the year 2017-18

Project Title	Description
Water Quality Monitoring in Service reservoirs and urban Slums in Hyderabad City.	Water quality investigators (WQIs) regularly visit service reservoirs to monitor residual chlorine (RC) and collect samples for bacteriological analysis. No-RC findings are reported to operations personnel on the spot and related to MWB Quality Assurance officers through WhatsApp messages. WQIs visit slum areas during water supply hours and monitor RC levels of direct metrowater supply in households, and public stand posts (PSPs). Samples are also collected for bacteriological, and physicochemical analysis. Daily reports of RC levels are e-mailed to MWB-QAT officers. Weekly & monthly reports on RC levels, bacteriological analysis and physicochemical test results are furnished to the QAT officers as well as Director-Technical. The IHS Director attends regular review meetings with Director (Tech), CGM(E) Transmission Circle and GM QAT, shares independent monitoring test results and participates in discussion regarding assurance of water quality.
Metro Water Board Consumer Complaints Surveillance For Water Safety	This is a research project to evaluate MWB's consumer complaints resolution and grievance redressal system for polluted water, water leakage and sewer chokeage problems. Every month about 100 consumers were randomly selected from the metro consumer complaints (MCC) database for detailed study. Surveyors visited households and gathered detailed information about consumer satisfaction, their complaints resolution experience regarding water supply and sewerage services. Household samples of direct metrowater supply and from corresponding service reservoirs were tested for quality & potability. Quarterly tabulation of results were furnished to the MWB and discussed with senior officers. The annual report for 2017-18 was furnished on 23rd July 2018.

B. Academic Programs:

1. Fellowship Program: During the reporting period, one research fellow Ms. Vishnupriya Kareddy from University of Maryland who got Fulbright-Nehru scholarship sponsored by the US-India Educational Foundation (USIEF) has completed fellowship under the guidance of Dr. Prasanta Mahapatra, Dean, IHS. She has done the study from Sep 16 to Aug 2017, on the topic "A Study of National Health Mission (NHM) Community Process in Telangana State". She presented the findings to the health department officials of Telangana State on 31st Aug 2017.
2. Masters in Public Health (MPH): There is no further development since the last meeting.
3. IHS Land-High Court case: The Public Interest Litigation (PIL) case was listed, in 2015, on several dates in short gaps like on 22/04/2015, 1/06/2015, 22/06/2015, 20/07/2015, 24/8/2012 and last on 31/8/2015. Sri C. Prakash Reddy, the Institute's advocate, did argue our case during some of these dates. However, no final order has been passed by the court and the case has not been listed, after 31/8/2015.
4. Land Development Charges: The members are aware that, pending finalisation of the court proceedings, we initiated proposal with HMDA for conversion of land use from recreational zone to institutional zone. We paid an amount of Rs 9,90,000 towards 50% of the development charges on 24/03/2014. Payment of balance 50% of development charges to HMDA along with interest is pending. In March & Jun 2018, we requested HMDA to calculate the balance to be paid along with draft challan and their response is awaited.

C. Training Services:

The Institute's training program is now limited to skill development internships in laboratory techniques, field testing, sample collection, and ancillary activities. Table-3 shows an overview of internships offered by the IHS during the reporting period and current year.

Table-3: Overview of Internships at IHS, 2017-18.

Sl Practice & Skill Development	Reporting Year, 2017-18			Current Year 2018-19Ytd		
	Joined	Dropped	Completed	Joined	Dropped	Completed
1 Microbiology / Chemical Analysis Lab Mgmt.	0	0	1	0	0	0
2 Laboratory Technique	8	5	1	2	0	1
3 Field Testing For RC & Sample Collection (Water Quality Investgn)	9	0	0	5	0	10
4 Lab Registry & Front Office, Data Processing, and Pgm Implementation.	2	0	1	2	0	0
Total	19	5	3	9	0	11

Joined: Interns Joined During the Reporting Period. Dropped: Number of interns who discontinued their internship during the year (who might have joined during the current/previous periods); Reasons: Pursue alternate career options, and/or Personal constraints, Completed: Number of persons who completed their internships during the reporting period (who might have joined during the current/previous periods).

Number dropped and completed do not add up to the number joined because each of these figures are about join/drop/complete events during the year in respect of persons who might have joined as interns during the current as well as previous periods. An internship is usually of one year duration. Annex-3A gives short biographies of fellows and interns, and Annex-3B gives a list of fellows & interns who left the Institute for various reasons.

D. Public Services:

1. IHS Laboratories:

- a. Chemical Lab: We improved the human resources by recruiting an experienced Chemical Analyst. A consultant guided laboratory personnel to conform with Indian Standard Test procedures or American Public Health Association (APHA). Required equipment such as auto burette, spectrophotometer, flame photometer, hot air oven, freezer, have been acquired. Application for NABL accreditation was filed on 23rd Jan 2018. Preliminary assessment was done on 31st Mar 2018 and final assessment was on 16-17th Jun 2018. The IHS Chemical Lab received NABL accreditation on 06-08-2018. This is valid for two years.
- b. Biology Lab: Here, also we recruited an experienced person as Senior Microbiologist. We have improved the Biology Lab equipment with autoclave, incubators and water bath, etc. We are now reorganising the Institute's office space so that the Biology laboratory space is organised according to recommended standards and to meet NABL accreditation criteria.

2. Accessible Water Testing Services for Public Health (AWTSPH): IHS Laboratory is listed in JustDial to facilitate online searches. We have clearly defined matrix of test codes and test parameters along with consumer guidance for selection of water quality testing service packages & test codes. IHS Water Quality Investigators visit client premises to collect sample for a modest fee. Reports are being scanned and sent by e-mail, held for pickup or couriered depending on client-options. We are giving interpretations and recommendations, according to intended use. Clients are appreciating these notes & recommendations.

3. Laboratory Revenue: Since last five years, the laboratory has significantly increased its output and has also been a major source of revenue. An overview of revenue from IHS laboratory services is in Annex-4 which shows that, the major revenue is being generated from HMWSSB for monitoring water quality at various points of water distribution system operated by them. We made efforts to increase revenue from general clients which is an indicator of popular engagement and trust with the water quality lab. During the year 2016-17, the revenue from general public touched more than Rs 5 lakhs, but reduced to Rs 4 lakhs in the reporting period. We focussed on improving the IHS Laboratory facilities and streamlining the procedures and practices. We introduced new tests like Dialysis RO System Feed Water (DRF). We are in the process of introducing new tests like Silica etc. We are giving interpretations and recommendations in the test reports which most of the clients are appreciating. We received NABL accreditation during the current period.

4. Registration of IHS Laboratory as Clinical Establishment: IHS Laboratory has been registered under the TS Allopathic Private Medical Care Establishments (Registration and Regulation) Act 2002 to provide "Diagnostic Type of Services" valid for a period of five years with effect from 30-11-2017¹.

5. Library: The scope for proactive acquisition of bibliographic resources has been limited due to financial constraints. In addition, lack of space and a full time librarian is a key constraint in developing the library services. To streamline the library, we have weeded out obsolete holdings.

E. Publications:

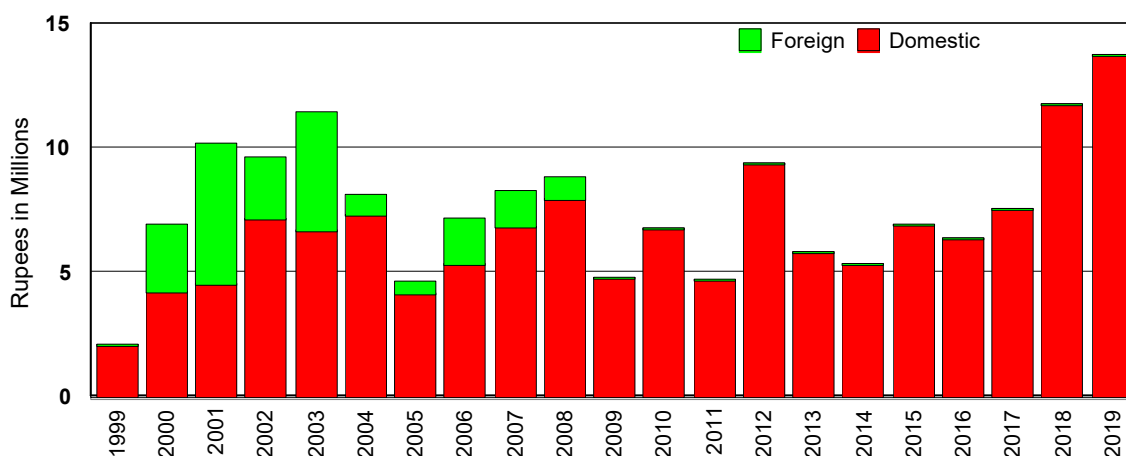
IHS and related publications in the reporting year are listed in Annexures 5 &6.

¹ DM&HO and Chairman Dist Registration Authority, Hyderabad Dist vide REGD.No.07F-APMCE-1109

Taking Stock of the Institute's Financial Position:

Classification of the Institute's revenue from domestic and foreign sources as well as by activity is given in Annex-7. In Figure-1 the gross revenue generated by the Institute from the financial year ending in March 1999 has been summarized. The average revenue of the IHS has been around Rs 70 lakhs per annum from 2015 to 2017. During the reporting period, the receipts touched to Rs 118 lakhs. During the current year, we are expecting modest improvement in receipts to about 137 lakhs. The Institute needs to substantially upscale its activities and improve its finances for effective realisation of its goals.

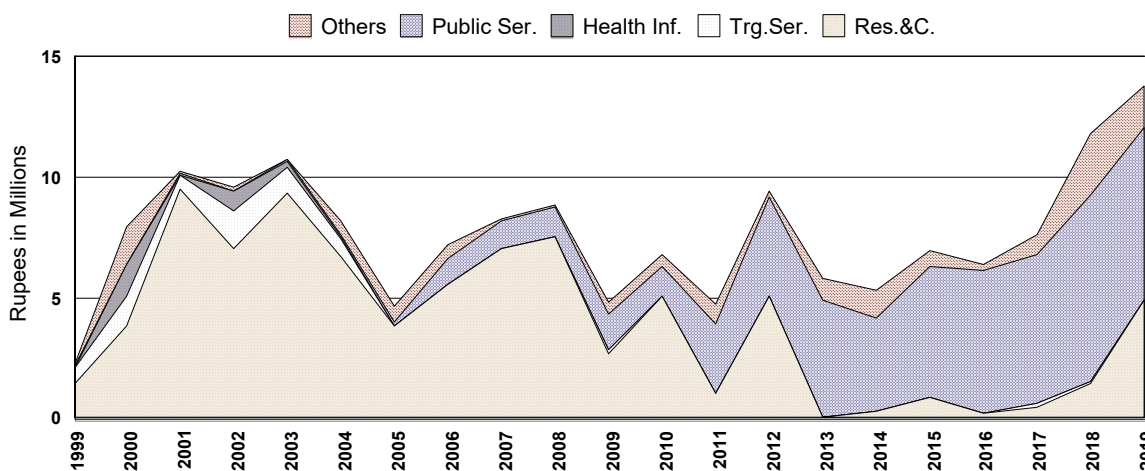
Figure-1: IHS Gross Revenue Trend Since 1999



Estimate for 2019 is based on year to date and anticipated receipts.

As is evident from Figure-2, most of our revenue has been contributed by Research and Consultancy till 2012. During the current year, it is expected to reach around Rs 50 lakhs. In recent years, receipts from public services has been increasing mainly on account of water quality testing services.

Figure-2: The IHS receipts by broad area of activities



Estimate for 2019 is based on year to date and anticipated receipts.

I look forward for your guidance in addressing these important issues.

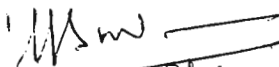
Accounts and Audit Report:

The audited accounts of the Institute for the year 2017 -18, as approved by the Executive Committee, have been enclosed. I now request you to consider the same and give your approval with suggestions if any.

Finally I thank you for having spared the time to participate in this meeting. Your presence is a great inspiration to me, and my colleagues.

I would now request you to consider this report and give your valuable advise and guidance for further development of the Institute. We would like to assure you that we will do our best to translate your ideas and suggestions into action.

Date:13/12/2018


G. Surendra, Director

Annex -1A

Faculty and Personnel Profile

Full Time Faculty

G Surendra, Director

Sri G. Surendra has rich experience in various areas of public administration, including; (a) Planning & Statistics, (b) Rural Development, (c) Information Technology, and (d) Hospital Management. Prior to IHS, he served as Associate Director & Chief Technology Officer of the LV Prasad Eye Institute, and before that he worked with Planning Department of the Government of AP in various capacities. He is a Certified Information Systems Auditor. He was involved in various health related activities such as Health Financing, Health accounts and Various Health related studies. He presented a Poster on Andhra Pradesh Civil Registration System at First Global Symposium on Health Systems Research at Montroux, Switzerland. Some of other publications to his credits are: Gap Analysis in Rural Health care Facilities in Mahabubnagar District, Drinking Water Quality Monitoring in Service Reservoirs and Urban Slums of Hyderabad City, A Study of Emergency Response Services in three districts of Andhra Pradesh, Andhra Pradesh Civil Registration System Study, Assessment of Doctor Availability in Primary Health centers and provide inputs for Human Resource Planning for Health, Medium Term Expenditure Framework for the years 2008-09 to 2012-13 for the Department of Health Medical & Family Welfare, Govt of Andhra Pradesh, Health Budget & Expenditure Tracking for the department of Health, Medical & Family welfare, for the Govt of Andhra Pradesh, Madhya Pradesh and Kerala. He is also implementing the project on Independent water quality monitoring in service reservoirs and urban slums in Hyderabad city. To manage the IHS Laboratory, he also undergone training on Laboratory Quality Management System and Internal Audit as per ISO/IEC 17025:2005.

Dr.Prasanta Mahapatra, Dean.

Dr. Prasanta Mahapatra, is a medical doctor, a Takemi Fellow in International Health and a PhD in International Health Policy & Economics from Harvard University. After practicing for sometime as a Medical Officer in the Central Government Health Scheme, Dr. Mahapatra joined the Indian Administrative Service, in 1980. He served in various capacities in East-West Godavari, Nellore, Nalgonda, Krishna and Guntur districts. Dr. Mahapatra is experienced in revenue, general administration, disaster management, rural development, tribal welfare, women welfare, medical, health, information technology, irrigation and school education sectors. His experiences in the health field include, Registrar of the NTR University of Health Sciences, Director Medical Education, Commissioner Medical Services, Senior Faculty at the Administrative Staff College of India, Director Institute of Health Systems, and Director - Vice Chancellor of the Nizams Institute of Medical Sciences. Before his retirement from civil service, he was the Director General of the MCR Human Resources Development Institute and Ex-officio Special Chief Secretary to Govt. of AP. He has served as member of ICMR Scientific Advisory Group, and Core Group of the Department of Health Research. He was a member of the steering group of the National Nutrition Mission. He was a member of the Scientific and Technical Advisory Group of the WHO - Alliance for Health Policy & Systems Research from 2009-15. Dr. Mahapatra has contributed to the Global Burden of Disease estimates published in the World Bank's World Development Report, 1993. He has published articles and books in the fields of general administration, rural development, and public health.

Consultant:

Sri Dhananjaya Rao

Sri Dhananjaya Rao did his post graduation in Chemistry and got 20 years laboratory experience by working in various capacities in the laboratories like SGS India Pvt Ltd Chennai, TA labs Chennai, and Bhagavathi Ana Labs Hyderabad. He was Director for Chennai Testing Laboratory Pvt Ltd for 2 years. He is the Lead Assessor as per ISO/IEC 17025, Quality Management Systems (QMS) Lead Auditor (ISO9001:2000), Environmental management System (EMS) Lead Auditor (ISO:14001:2004). He performed nearly 350 assessments as per ISO/IEC 17025 conducted by NABL. Presently he is working as Adjunct Faculty at MIT - Aurangabad and Director for SPARK Analytics. Sri Dhananjaya Rao is extending consultancy on NABL process for IHS Chemical Lab.

Voluntary & Visiting Faculty:

Prof Dayakar thota

Dr Dayakar Thota is an Ex-Armed Forces Medical officer and also holds his PG in Hospital Administration from University of Pune. He served the Indian Army from 1971 to 1994 and took part in 1971 Indo-pak war as well as IPKF operations in Srilanka. He also possesses M.Sc (Defense Sciences) from Madras University. Dr Thota is a qualified Lead Quality Assessor and trained NABH assessor and also a Certified Six Sigma Black Belt.

Currently Prof (Lt. Col) DayakarThota is the Medical Director for Ramdevrao Hospital, a charitable hospital located in Kukatpalli, Hyderabad. Dr Thota's versatile experience includes; (a) Professor & Head of Department of Hospital Administration at Kamineni Institute of Medical Sciences, (b) Chief Learning Officer, Health Management & Research Institute, Hyderabad (104), (c) Director, Institute of Health Systems, Hyderabad, (d) Medical Director, Emergency Management & Research Institute (108), Hyderabad, (e) Management Consultant & Additional Director (Hospital Services), MGM Medical college Hospital, Aurangabad, (f) Medical Superintendent and Professor, Dept. of Hospital Administration, Nizam's Institute of Medical Sciences (NIMS), Hyderabad, (g) Additional Director, Dhirubhai Ambani Hospital, Lodhivali, Maharashtra, (h) CEO, Lokmanya Hospital, Chinchwad, Pune, (i) Professor of Hospital Administration & Deputy Medical Superintendent, Kasturba Hospital (MAHE), Manipal. He has audited of a number of HCEs for ISO certification. Dr Thota is a life member of professional bodies such as AHA, AHHA, AGE, ISHA, IAMI and IHS.

Research, Laboratory and General Support Personnel:

L. Rakesh, Sr. Microbiologist:

Mr. Rakesh did his Masters Degree in Microbiology and has varied experience in industries. He was Effluent Treatment Plant (ETP) Chemist in United Spirits Ltd, Nacharam Hyderabad, maintaining and managing the inflow-outflow to keep treated effluent parameters within regulatory guidelines. As Assistant Executive and a member of the Hazard Analysis and Critical Control Point (HACCP) Team in Pearl Beverages, he implemented sanitation and systems improvements to satisfy various internal quality audits such as American Institute of Baking (AIB) HACCP, Quality Assessment Service (QAS), Good Manufacturing Practices (GMP), Good Laboratory Practices (GLP), and ISO22000-2005. He is familiar with preparation of media for microbial analysis of packaged drinking water, cold-fill and hot-fill

drinks. Before joining IHS, he was Quality Control Executive in Trinity Beverages Pvt Ltd, producing packaged drinking water and other beverages. His role was to manage & maintain plant hygiene in all areas and train shop floor people. Presently he is Senior Microbiologist and Research Associate in IHS since September 2017.

P. Sravanthi Reddy, Chemical Analyst:

P. Sravanthi Reddy graduated in Chemistry and then did a PG Diploma in Chemical Analysis & Quality Assurance from Osmania University. Her project work during the PG Diploma course was on "Detection and Estimation of Alcohol in Biological Fluids" by Means of Gas Chromatography at Central Forensic Science Laboratory (CFSL), Hyderabad. She worked as a Project Analyst (2005-07) in Telangana Pollution Control Board (TPCB - Central Laboratory), Hyderabad. In 2008 she received Masters Degree in Chemistry from Nagarjuna University. She then worked (2008-09) as Analyst for Universal Enviro Associates Pvt Ltd, dealing with water analysis. Prior to joining IHS, she was Team Leader - Environment in Bhagavathi Ana Labs Pvt.Ltd., Hyderabad and received Internal Auditor training on integrated management systems. Presently she is Chemical Analyst at IHS since 1st Aug, 2017.

M. Lavanya, Laboratory Technician:

Ms Meriga Lavanya, graduated with Chemistry, Microbiology, and Genetics from St. Pious-X Degree & PG College, affiliated to the Osmania University, in 2014. She participated in a hands on workshop in enzymology at Nitza Biological for 5 days from 11th Jul 13 to 15th Jul 13. She completed internship in Laboratory Techniques at IHS by 31st Dec 15. She is pursuing Masters Degree Course in Microbiology by distance education mode from the Acharya Nagarjuna University. Presently, she is working as Laboratory Technician in the Chemical Lab, since 1st Jan 2016.

P. Sai Keerthi, Laboratory Technician:

Ms Pasham Sai Keerthi graduated in Biotechnology from CMR College of Engineering & Technology. Her graduate major project was on "Production and characterization of Probiotic Bacteria from camel milk" at the Jawaharlal Nehru Institute of Advanced Studies (affiliated to JNTU). She worked with Lactobacilli to identify probiotic strains. Minor project was on production of Zindathilismath, from Camphor, Eucalyptus, Thymol and Alkanetran dye. She was trained on PCR Techniques at JNTU Anantapur and attended workshop on Forensic Science at CBIT. She received a silver medal in academics and consolation prize for poster & power point presentation. She did her Masters in Biotechnology with distinction from Sri Indu group of Institutions. Her post graduate project was on "Polymorphisms of Xenobiotic metabolizing enzymes and susceptibility to breast cancer risk", a matched case-control study in south Indian population to investigate the association of GSTM1, GSTT1, GSTP1 and CYP1A1 gene polymorphisms in breast cancer susceptibility. She completed one year internship in Microbiology Lab Techniques at IHS by July 2017. She worked as Lab Technician in IHS Biological Lab from August, 2017 to 4th May 2018.

D Krishna Veni, Lab Registrar Cum Front Office Executive:

Ms. Dasari Krishna Veni, graduated with Mathematics, Physics and Chemistry from A.V.College, affiliated to the Osmania University, in 2009. She completed an internships on Front Office Management at IHS by 31st March 2010. She is conversant with scope of

various laboratory services, registration of laboratory test requests, tracking & delivery of test reports, procurement of office stationery & inventory management, maintenance of library catalogue in Procite, supporting events & meetings. She maintains contact with clients and follows-up to gather client feedback.

M. Srikanth, Data Processing Officer:

M. Srikanth is an engineering graduate in Information Technology from Mother Theresa College of Engineering & Technology (MTCET), affiliated to the JNTU Hyderabad in 2013. Prior to joining in IHS, he was Software Trainer at Satyam Computer Educations Software & Hardware Training Center, Karimnagar from 2016Aug to 2018Apr. Presently he is working as Data Processing officer in IHS since 24-09-2018.

Khaled Bin Seleem:

Sri Khaled graduated in Computer Applications (BCA) from Sri Sai Degree College, affiliated to Osmania University, in 2003. Thereafter, he taught mathematics in Oxford Grammar School and Hyderabad High School, and a Private Tutor, up until 2014. He completed an Internship in Front Office Assistance, at IHS by August, 2017. He worked as Data Processing Asst from 1st Sep 17 to 18th Jul18.

G. Jaya Krishna, Water Quality Investigator:

Intermediate with Mathematics, Physics and Chemistry from Nalanda Junior College, Hyderabad which is affiliated to the State Board of Intermediate Education. Completed internship at IHS, on Field Testing of Residual Chlorine & Water Sample Collection (Water Quality Investigation), by 31st Dec 2010.

K.Prabhakar, Water Quality Investigator:

Intermediate with Mathematics, Physics and Chemistry from Nava Chaitanya Junior College, Hyderabad affiliated to the State Board of Intermediate Education. Completed internship at IHS, on Field Testing of Residual Chlorine & Water Sample Collection (Water Quality Investigation), by 31st Aug 2015.

D.Suresh Kumar, Water Quality Investigator:

Intermediate with Commerce, Economics and Civics from Agarwal Junior College for Boys, Hyderabad affiliated to the State Board of Intermediate Education, Andhra Pradesh. Completed internship at IHS, on Field Testing of Residual Chlorine & Water Sample Collection (Water Quality Investigation), by 31st Aug 2015. He worked as Water Quality Investigator from 1st Sep 2016 to 31st Aug 18.

Md. Anwar, Water Quality Investigator:

Secondary School Certificate (SSC) with Mathematics, General Science and Social Studies from Sri Sai Vidyalaya High School, Secunderabad affiliated to the State Board of Secondary Education. Completed internship at IHS, on Field Testing of Residual Chlorine & Water Sample Collection, by 31st Jan 2017. He worked as Water Quality Investigator from 1st Deb 2017 to 31st Aug 18.

B.Venkateshwarlu, Water Quality Investigator:

Intermediate with Mathematics, Physics and Chemistry from Maharshi Junior College, Cherial which is affiliated to the State Board of Intermediate Education. Completed internship at IHS, on Field Testing of Residual Chlorine & Water Sample Collection, by 3rd Oct 2018.

D.Ashok Kumar, Water Quality Investigator:

Intermediate with Botany, Zoology, Physics and Chemistry from Triveni Junior College, Achampet which is affiliated to the State Board of Intermediate Education. Completed internship at IHS, on Field Testing of Residual Chlorine & Water Sample Collection, by 24th July 2017.

D.Kishan Naik, Water Quality Investigator:

Intermediate with Botany, Zoology, Physics and Chemistry from YRM Junior College, Kalvakurthy which is affiliated to the State Board of Intermediate Education. Completed internship at IHS, on Field Testing of Residual Chlorine & Water Sample Collection, by 9th Sep 2017.

K.Karthik, Water Quality Investigator:

Intermediate with Mathematics, Physics and Chemistry from Wesley Junior College, Hyderabad which is affiliated to the State Board of Intermediate Education. Completed internship at IHS, on Field Testing of Residual Chlorine & Water Sample Collection, by 5th August 2017.

Mohd.Afzaluddin, Water Quality Investigator:

Intermediate with Mathematics, Physics and Chemistry from Narayana Junior College, Hyderabad which is affiliated to the State Board of Intermediate Education. Completed internship at IHS, on Field Testing of Residual Chlorine & Water Sample Collection, by 4th July 2017.

S.Anil Kumar, Water Quality Investigator:

Intermediate with Botany, Zoology, Physics and Chemistry from Maharshi Junior College, Cherial which is affiliated to the State Board of Intermediate Education. Completed internship at IHS, on Field Testing of Residual Chlorine & Water Sample Collection, by 11th August 2017.

Annex - 1B**Outgoing Faculty & Personnel
in 2017-18 & 2018-19 (Ytd).****Faculties & Associates:**

Name	Designation	Join date	Leave date	Remarks
2017-18				
None				

Research Assistants & Investigators:

Name	Designation	Join date	Leave date	Remarks
2017-18				
None				

Water Quality Lab Personnel:

Name	Designation /project	Join date	Leave date	Remarks
2017-18				
V Mahesh Kumar	Water Quality Investigator	01/04/2016	01/07/2017	Termination due to unauthorised absence
J. Lakshmi	Laboratory Technician	08-07-2013	15-11-2017	Resignation due to ill health
2018-19				
D. Suresh Kumar	Field Testing of RC and sample collection	15-02-12	31-08-18	Term Completion
Md F Anwar	Field Testing of RC and sample collection	05-01-15	31-08-18	Does not have inter-science edu. qualification, which is the updated requirement for field testing of RC.
P. Sai Keerthi	Laboratory Technician	25-07-16	04-05-18	Resignation for higher studies.
Khalid Bin Seleem	Data Processing Asst	01-09-16	18-07-18	Terminated due to irregular attendance.
K. Parashuram	Water Quality Investigator	01-07-17	06-10-18	Resignation.
T. Kiran	Driver	01-02-18	30-11-18	Resignation.

General Support

Name	Designation/Project	Join date	Leave date	Remarks
2017-18				
V.Srinivas	Program Officer	09-07-2014	31-08-2017	Term Completion

Notes: Join date is the first day of the current spell of personal affiliation with Institute. However, the nature of initial affiliation might have been different from the status at the time of exit. For example, a person may join as an intern or apprentice and may then be employed by the Institute at the end of internship. Similarly, the designation of those employed may change from the date of entry to the date of exit.

Annexure-2

IHS Participation in Training Programs, Workshops, Seminars and Conferences in the year 2017-18 & 2018-19 (Ytd)

Dr. Prasanta Mahapatra, President & Dean:

Course/Workshop Title	Institution	Dates
Stakeholder Consultation on Effectiveness of Urban SHGs on Maternal, Newborn & Child Health & Advisory Group Meeting.	Mahila Abhibruddhi Society (MAS), HUDA Colony, Tanesha Nagar, Manikonda, Hyderabad.	2017 May 05
Launch Event for Communication Resource Unit (CRU) on Institutional Mechanisms for Strategic Communication to Govt.	National Institute of Rural Development, Rajendra Nagar, Hyderabad.	2017 Jul 06
Workshop on National CRVS Verbal Autopsy Sampling Strategies at Swiss Tropical and Public Health, Basel, Switzerland.	Swiss Tropical and Public Health, Basel, Switzerland & University of Melbourne Bloomberg Initiative for Civil Registration & Vital Statistics, Australia.	2017 Aug 14-15
IIHMR-B Board Meeting	Indian Institute of Health Management Research, Bengaluru.	2017 Aug 26
Universal Health Coverage (UHC) Day 2017	Ministry of Health and Family Welfare, GoI with technical support from the World Health Organization (WHO) India, New Delhi.	2017 Dec 11-12
Panel discussion on Universal Health Coverage (UHC)	Andhra Pradesh State IAPSM and IPHA Joint Conference, Andhra Medical College, Vishakhapatnam	2017 Dec 15-16
Executive Development Programme for Dist Pgm Managers (DPM), National Health Mission, Odisha (May 21-25, 2018). Session on role of PH Managers to attain SDG	Administrative Staff College of India, Hyderabad.	2018 May 05
Book release "Equity and Access: Health Care Studies in India" Discussant on the section "Right to Health and Universal Health Strategies"	Oxford University Press, at Lamakaan, Banjara Hills, Hyderabad,	2018 Jul 12

G Surendra, Director:

Course/Workshop Title	Institution	Dates
Inclusive Development: Issues and Challenges	Centre for Economic and Social Studies, Hyderabad	2018 Oct 08

Course/Workshop Title	Institution	Dates
PhD Seminars on Pre-submission of thesis	Centre for Economic and Social Studies, Hyderabad	2018 Nov 1-2
Rapid Method for Detection of Coliform and E.Coli in Water	Savant Instruments pvt Ltd on behalf of IDEXX Water testing Solutions	2018 Dec 04

L. Rakesh, Senior Microbiologist and Research Associate

Course/Workshop Title	Institution	Dates
MISSION BHAGIRTHA - State level workshop on Strategies for effective community participation in achieving sustainable water quality and O & M	Freshwater Action Network South Asia (FANSA) & Modern Architects for Rural India (MARI) in collaboration with Rural Water Supply and Sanitation (RWSS), Govt of Telangana, Hyderabad.	2018 Jan 23
Rapid Method for Detection of Coliform and E.Coli in Water	Savant Instruments pvt Ltd on behalf of IDEXX Water testing Solutions	2018 Dec 04

P. Sravanthi Reddy, Chemical Analyst and Research Associate

Course/Workshop Title	Institution	Dates
MISSION BHAGIRTHA - State level workshop on Strategies for effective community participation in achieving sustainable water quality and O & M	Freshwater Action Network South Asia (FANSA) & Modern Architects for Rural India (MARI) in collaboration with Rural Water Supply and Sanitation (RWSS), Govt of Telangana, Hyderabad.	2018 Jan 23
Analytica Anacon India and India Lab Expo 2018,	Hitex Exhibition center, Hyderabad.	2018 Sep 07
Rapid Method for Detection of Coliform and E.Coli in Water	Savant Instruments pvt Ltd on behalf of IDEXX Water testing Solutions	2018 Dec 04

M. Lavanya, Laboratory Technician

Course/Workshop Title	Institution	Dates
Analytica Anacon India and India Lab Expo 2018,	Hitex Exhibition center, Hyderabad.	2018 Sep 07

A. Jeevana, Intern in Lab Technique

Course/Workshop Title	Institution	Dates
Analytica Anacon India and India Lab Expo 2018,	Hitex Exhibition center, Hyderabad.	2018Sep 07

K. Laxmi Prasanna, Intern in Lab Technique

Course/Workshop Title	Institution	Dates
Analytica Anacon India and India Lab Expo 2018,	Hitex Exhibition center, Hyderabad.	2018Sep 07
Rapid Method for Detection of Coliform and E.Coli in Water	Savant Instruments pvt Ltd on behalf of IDEXX Water testing Solutions	2018 Dec 04

Annex -3A:

Fellows & Interns, in 2017-18 & 2018-19 (Ytd).

Vishnupriya Kareddy:

Vishnupriya Kareddy graduated with the highest distinction from the University of Maryland, College Park (UMD) in 2016 with a B.S. in Biological Sciences (with a concentration in Physiology and Neurobiology) and a B.A. in Government and Politics. During her time as an undergraduate student, she gained experience in clinical and basic science research. She studied the results of ablation therapy on patients with arrhythmogenic right ventricular dysplasia as part of a team at The Johns Hopkins University School of Medicine. Her undergraduate thesis elucidated the gross cellular anatomy of early brain cortex development in a mouse-model of autism spectrum disorder. These research projects resulted in publications in Heart Rhythm and Cell Reports, respectively. In addition to research, Ms. Kareddy led the organization, Justice at UMD, which advocated for the betterment of working conditions for university workers. She also co-founded the University Language Partnership Program at UMD which placed student teaching assistants in English, computer literacy, and GED classes offered by the university for its workers. Ms. Kareddy was awarded a Fulbright-Nehru scholarship to join the IHS after graduation as a Research Fellow (2016 Aug 29 To: 2017 Aug 31). Her project qualitatively examines the process of community involvement as engendered by the National Health Mission in a primary health centre area in Telangana. Namely, she studied ASHAs, Village Health and Nutrition Days, and Village Health Sanitation and Nutrition Committees through non-participant field observations, semi-structured key-informant interviews, and documentary data. Before returning to the U.S., she presented her work to Telangana administrators and researchers. Currently, she is working at the Boston office of the RAND Corporation, USA, and is devoting her spare time, to write about the results of her study.

G.Sravanthi, Intern in Healthcare Software Development:

Ms. G.Sravanthi is a Bachelor of Technology (B.Tech) in Computer Science & Engineering from Sarada Institute of Technology & Sciences (SITS) Khammam, affiliated to the JNTUH. She was Program Analyst Trainee at E-Data Global Services, Hyderabad, Dec 2016-Feb 2017. She did a course on .NET Framework (Asp, Ado) at Naresh Technologies, Hyderabad during 2017 March-July. She is familiar with programming languages like C, C#, and HTML. She completed her internship in Healthcare Software Development at IHS, focusing on Epi Info from 28-08-2017 to 31-08-2018.

A. Vijayendra Mohan, Intern in Back Office Management & Program Implementation:

Sri Vijayendra graduated in Microbiology, Zoology and Chemistry (BSc MbZC) from New Science Degree College, Hanamkonda, affiliated to the Kakatiya University, in 2011. In 2015, he completed his Masters Degree in English from the University College, affiliated to Telangana University. He worked for sometime as a Computer Operator in BPL. His internship on Back Office Management and Program Implementation, at IHS started from 13th July, 2017. He took a break from 12th Jul 2018 to 10th Oct 2018, to prepare for National Eligibility Test (NET) being conducted by University Grants Commission (UGC). He resumed the internship from 11th Oct 2018.

Pooja Sunar, Intern in Biology Lab Technique:

She is holding a B.Sc. Degree in Biotechnology, Microbiology and Chemistry. She is a member of National Red Cross and participated in many activities by the Society for Training Awareness Recruitment & Social Service (STAR). As a head of Bio Club, she won medals for Shadow Act on DNA Replication of Virus and Song on Microorganisms. She was a volunteer at 11th International Biodiversity Conference 2012 held at Nehru Zoological Park, Hyderabad through National Service Scheme (NSS). Seminar presentation on Plant Diseases and Bt Cotton at International Crop Research Institute for Semi Arid Tropics (ICRISAT), Patancheru. Stood first in work shop on Gene Cloning at Indigenous Biotechnologies. Took training as a Medical Lab Technician at L.K.S Diagnostics, Karkhana for six months in the department of Biochemistry, Serology, Pathology, Microbiology and Haematology. Worked as a Lab Technician at Vijaya Healthcare Diagnostics, Malkajgiri for six months and Kadila Healthcare Diagnostics, Chandanagar for a year. She was a speaker at seminar held at Madinaguda by Jayamitra&Co on Lab Equipments and serology. Her Internship in Microbiology Lab Technique at IHS, started in June 2017, but she dropped out on 28th Feb 2018.

B.V.Victoria Biology Lab Technique:

B.V.Victoria, did her post graduation in Biotechnology in 2017, from University College of Science, Saifabad, Hyderabad, affiliated to Osmania University. She did the project "Isolation & Identification of E.Coli & Lambda phage by Multiplex PCR" from Mahatma Gandhi National Institute of Research & Social Action, Hyderabad, that is published in International Journal of Applied Research 2017;3(5): 827-829. She attended the seminars related to DNA. Her Internship in Microbiology Lab Technique at IHS, started on 27-04-2018.

A. Divya Jyothi, Biology Lab Technique:

A. Divya jyothi did her M.Sc. in Biotechnology in 2014, from Loyola Academic Degree and PG College, affiliated to Osmania University. She did a project "Optimization of Monoplex PCR for OXA-23 in Acinetobacter baumannii isolate" from Global Medical Education & Research Foundation, Lakdikapool, Hyd, and worked for 1 year in the same lab as a molecular lab technician. Her Internship in Microbiology Lab Technique at IHS, started on 16-04-2018.

K. Laxmi Prasanna, Biology Lab Technique:

K.Laxmi Prasanna, did her post graduation in Microbiology from Jahnvi Degree & PG College, Hyderabad in 2016, affiliated to Osmania University. Her Internship in Microbiology Lab Technique at IHS, started on 7th Mar 2018.

Swathi Banoth, Biology Lab Technique:

Swathi Banoth, joined as a Biology Lab Intern in IHS since 9th March 2018. has done Graduation in the stream of BSc-BMC (Biotechnology, Microbiology, Chemistry) from Kathutba Gandhi Degree & PG women's college, Hyderabad in 2015. She attended work shop in Genetics-Gene Transfer Technique. she did project work in Diabetes.

A. Jeevana, Intern in Chemical Lab Technique:

Ms. Jeevana graduated in science (BSc BtZC) from Satavahana University, in 2013. In 2015, she completed Masters in Environmental Science (MSc EnvSc), from Osmania University. As part of the post graduation, she did a project for one month duration on "

Assessment of Sewage Treatment Plant" in the Singareni Collieries Company Limited. She worked as a Chemist for water, soil and ambient air testing, in Bhagavathi Ana Labs, from April 2016 to August 2017. Her Internship in Chemical Lab Techniques at IHS, started on 6th Sep 2017 and completed by 30th Nov 2018.

P. Punyasri, Intern in Biology Lab Technique:

Ms. Punyasri graduated in Microbiology, Genetics & Chemistry (BSc MGC) from MNR Degree College. At college laboratory she learned weighing and preparing media, handling of different equipments like autoclave, hot air oven, incubator, LAF, and water quality test by micro pipetting, and positive tests etc. During graduation studies, she participated in college workshops on handling of lab equipments and chromatographic techniques. Prior to graduation, she worked for sometime in an interior decoration shop helping with estimation of costs. Her Internship in Microbiology Lab Technique at IHS, started on 13th Nov 2017, but dropped from 12th Feb 2018 as she got opportunity in National Institute of Nutrition.

A. Lavanya, Intern in Biology Lab Technique:

A. Lavanay graduated in Microbiology, Biochemistry & Chemistry (BSc Life Science) from Rao's Degree College Nellore, affiliated to Vikrama Simhapuri University, Nellore, in 2015. She received a Gold Medal and Pratibha award in B Sc Life Sciences for being University topper in the subject. Her undergraduate project was on "Isolation and degradation of Keratinase and degrading bacteria" at Global Institute of Biotechnology, Hyderabad. She completed her Post Graduation (MSc) in Microbiology in 2017 and was the university topper. She did Medical Coding course at Core2Code Chennai. Her Internship in Microbiology Lab Technique at IHS, started on 15th Nov 2017, but dropped out from 31st Jan 2018 to take care of her sick mother.

Water Quality Investigation Interns:

Name	Qualifications	Start Date	Practice & Skill Development
N. Ram Manohar	B. A (Social Work)	17-08-2018	Field Testing of Residual Chlorine & Water Sample Collection
T. Sandeep Kumar	Intermediate (MPC)	27-08-2018	
K. Narendra Bhupathi	Intermediate (BZC)	6-10-2018	
M. Ajay Kumar	Intermediate (MPC)	10-11-2018	
M. Pawan Kalyan	Intermediate (MPC)	11-10-2018	

Annex - 3B

Outgoing Fellows, Interns and Apprentices, in 2016-17 & 2017-18 (Ytd).

Fellows:

Name	Designation	Join date	Leave date	Remarks
2017-18				
Vishnupriya Kareddy	Research Fellow	29/08/2016	31/08/2017	Completion

Water Quality Lab Interns :

Name	Practice & Skill	Join date	Leave date	Remarks
2017-18				
B.S. Jaswanth Raj	Chemistry Lab Technique	01-05-2017	30-06-2017	Resigned for preparing for competitive exams
P. Pooja Sunar	Biology Lab Technique	03-07-17	28-02-18	Resignation for higher studies
P. Punyasree	Biology Lab Technique	13-11-17	12-02-18	Resignation for a job in NIN
A. Lavanya	Biology Lab Technique	15-11-17	31-01-18	Resignation to take care of her ill mother
2018-19				
P. Narasimha raju	Field Testing of RC and sample Collection	08-02-17	31-07-18	Term Completion
P. Kishore Kumar	Field Testing of RC and sample Collection	23-08-17	31-08-18	Term Completion
G. Sravanthi	Health Care Software Development	28-08-17	31-08-18	Resignation for further education
A. Jeevana	Chemistry Lab Technique	06-09-17	30-11-18	Resignation

General Support Interns:

Name	Designation/Project	Join date	Leave date	Remarks
2017-18				
None				

Apprentices:

Name	Designation	Join date	Leave date	Remarks
2017-18				
None				

Annexure-4

Revenue from IHS Laboratory Services

Year	Source of Revenue				Total
	HMWSSB	EM-ResPj	IM-ResPj	Public	
2006-07	1,280,650	212,521	0	20,575	1,513,746
2007-08	1,263,000	450,000	0	34,465	1,747,465
2008-09	1,178,680	412,670	0	45,913	1,637,263
2009-10	1,519,475	100,800	0	75,375	1,695,650
2010-11	3,057,846	203,500	0	96,325	3,357,671
2011-12	3,966,215	8,400	0	92,700	4,067,315
2012-13	4,832,964	0	0	89,775	4,922,739
2013-14	3,670,530	132,750	0	90,000	3,893,280
2014-15	5,295,762	35,040	0	131,450	5,462,252
2015-16	6,347,591	16,000	0	245,925	6,609,516
2016-17	6,714,309	34,194	159,500	530,905	7,438,908
2017-18	8,398,865	136,200	600,000	401,243	9,536,308
2018-19 Ytd 30/11/18	5,981,981	0	600,000	260,520	6,842,501

¹ HMWSSB = Hyd Metro Water Supply & Sewerage Board - monitoring of residual chlorine in reservoirs, and slum area; ResPJ-EM = Water quality testing services for research projects in other (extramural) agencies, ResPj-IM = Water quality testing services for research projects in IHS, Public = Over the counter, water quality testing services to general public.

Annexure-5

IHS Publications in 2017-18 & 2018 -19 (Ytd)

Reports:

RP 63/2017 Drinking Water Quality Monitoring in Service Reservoirs and Urban Slums of Hyderabad City. A Report for 2014-15

Working Papers:

WP 69/2017 The Sample Registration System (SRS) in India, An Overview, as of 2017

Books:

NIL

Annexure-6

Publications Arising from Work Or People at IHS in 2017-18 & 2018 -19 (Ytd)

A. Publications:

Journal	Title
National Medical Journal of India (NMJI) Vol 30 No 2. 2017	Primary or specialist medical care: Which is more equitable? A policy brief. Authors: Prasanta Mahapatra, Sanjeev Upadhyaya, G.Surendra
The Hindu, Hyderabad, 2018 September 24, Editorial, Page-8, Cols3-7.	The primary anchor of a health-care road map. The key to success is to integrate prevention, detection and treatment. Author: Meenakshi Datta Ghosh.

B. Invited Presentations:

Presentation Title	Forum / Event	Author(s)
Implementation of Sustainable Development Goals (SDGs) in AP and Telangana States from Women's Perspective.	AIWC - FTAPCCI 6th April, 2017, FTAPCCI Bhavan, Hyderabad	Prasanta Mahapatra

Annex-7: IHS Revenue Trends by sources and by activity

Fin. Yr. ¹	Gross revenue by sources			Gross revenue by activity				
	Domestic	Foreign	Total	Res. & C.	Trg. Ser.	Health Inf.	Public Ser.	Others
1991	0	0	43,905					
1992	0	424,088	424,088					
1993	50,000	380,000	430,000					
1994	275,042	774,568	1,049,610					
1995	445,517	403,604	849,121					
1996	160,186	768,447	928,633					
1997	835,250	103,612	938,862					
1998	305,100	599,266	904,366					
1999	2,066,525	0	2,066,525	1,440,625	665,900	7,500	42,542	134,053
2000	4,249,243	2,720,925	6,970,168	3,834,275	1,237,020	1,318,650	21,569	1,547,087
2001	4,560,092	5,668,363	10,228,455	9,527,906	596,257	0	36,152	68,140
2002	7,162,946	2,451,095	9,614,041	7,029,835	1,556,105	822,950	37,236	167,915
2003	6,718,690	4,784,857	11,503,547	9,389,693	1,043,050	240,000	53,384	39,991
2004	7,329,734	826,363	8,156,097	6,676,243	744,408	90,750	142,190	529,538
2005	4,180,215	470,160	4,650,375	3,872,674	0	0	98,175	679,526
2006	5,319,507	1,845,761	7,165,268	5,555,979	0	0	1,045,095	612,519
2007	6,898,526	1,414,996	8,313,522	7,010,918	0	0	1,164,000	138,604
2008	7,985,882	840,277	8,826,159	7,564,690	0	0	1,174,555	86,914
2009	4,808,436	0	4,808,436	2,647,624	175,000	0	1,515,120	470,692
2010	6,774,122	0	6,774,122	5,054,076	0	0	1,285,368	434,678
2011	4,699,440	0	4,699,440	1,030,706	0	0	2,907,903	760,831
2012	9,408,422	0	9,408,422	5,088,933	0	0	4,077,380	242,109
2013	5,809,751	0	5,809,751	0	0	0	4,922,964	886,787
2014	5,356,163	0	5,356,163	272,700	0	0	3,895,080	1,188,373
2015	6,965,291	0	6,965,291	853,800	0	0	5,462,252	649,239
2016	6,419,805	0	6,419,805	168,000	0	0	5,980,642	271,163
2017	7,590,076	0	7,590,076	432,859	162,000		6,215,371	779,846
2018	11,802,862	0	11,802,862	1,427,577	70,000	0	7,747,882	2,557,403
2019 ²	13,784,551	0	13,784,551	4,912,899	0	0	7,147,106	1,724,546

¹ Institute's financial years are from April to March. Here each financial year is represented by the calendar year in which the financial year ends. For example; 1991 = FY 1990-91.

² Figures for current financial year (2018-19) is an estimate based on year to date + anticipated receipts.

³ Res.&C=Research & Consultancy, Trg. Ser.=Training Services, Health Inf.=Health Informatics, Ser.=Services

Date: 13/12/2018

G. Suresh
G Suresh, Director